

Appl. No. 10/823,281
Examiner: PORTIS, SHANTELL L, Art Unit 2617
In response to the Office Action dated April 13, 2006

Date: July 13, 2006
Attorney Docket No. 10114071

AMENDMENTS TO THE CLAIMS

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Currently Amended): A mobile phone comprising:

a body including a first engaging portion; and

a battery including a second engaging portion, wherein the battery is rotated along the first engaging portion to a predetermined position by means of the first engaging portion and the second engaging portion and is thereby fixed on the body.

Claim 2 (Original): The mobile phone as claimed in claim 1, wherein the first engaging portion is a groove, and the second engaging portion is a protrusion sliding in the groove.

Claim 3 (Original): The mobile phone as claimed in claim 2, wherein the body further includes a notch for inserting the protrusion into the groove.

Claim 4 (Original): The mobile phone as claimed in claim 1, wherein the body further includes a first fixed assembly, the battery further includes a first fixed portion corresponding to the first fixed assembly, and the battery is positioned on the body by the first fixed assembly and the first fixed portion.

Claim 5 (Original): The mobile phone as claimed in claim 4, wherein the first fixed assembly comprises:

a ball abutted by the first fixed portion in an elastic manner; and

a first elastic member, connected to the ball, for moving the ball in a predetermined range.

Claim 6 (Original): The mobile phone as claimed in claim 4, wherein both the first fixed assembly and the first fixed portion are magnets respectively.

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Claim 7 (Original): The mobile phone as claimed in claim 4, wherein the body further includes a second fixed assembly, the battery further includes a second fixed portion corresponding to the second fixed assembly, and the battery is positioned on the body by the second fixed assembly and the second fixed portion.

Claim 8 (Original): The mobile phone as claimed in claim 7, wherein the second fixed assembly comprises:

- a stopper abutted by the second fixed portion in an elastic manner; and
- a second elastic member, connected to the stopper, for moving the stopper in a predetermined range.

Claim 9 (Original): The mobile phone as claimed in claim 8, wherein the second fixed portion is a ratchet.

Claim 10 (Original): The mobile phone as claimed in claim 7, wherein the second fixed assembly is a cantilever.

Claim 11 (Original): The mobile phone as claimed in claim 7, wherein the body further includes a battery bay for receiving the battery, and the first fixed assembly and the second fixed assembly are located at opposite corners of the battery bay.

Claim 12 (Original): The mobile phone as claimed in claim 1, wherein the body is formed with a positioning hole, the battery includes a shaft corresponding to the positioning hole, and the battery rotates relative to the body by inserting the shaft into the positioning hole.

Claim 13 (Original): The mobile phone as claimed in claim 1, wherein the body is formed with a shaft, the battery includes a positioning hole corresponding to the shaft, and the battery rotates relative to the body by inserting the shaft into the positioning hole.

Claim 14 (Original): The mobile phone as claimed in claim 1, wherein the body includes a first connector, the battery includes a second connector corresponding to the first connector, and the

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battery is electrically connected to the body by the first connector contacting the second connector.

Claim 15 (Currently amended): A device for fixing a battery of an electric apparatus, wherein the electric apparatus includes a body and the battery detachably disposed in the body, and the device comprises:

a first engaging portion integrally formed on the body; and

a second engaging portion integrally formed on the battery, wherein the battery is rotated along the first engaging portion to a predetermined position by means of the first engaging portion and the second engaging portion and is thereby fixed on the body.

Claim 16 (Original): The device as claimed in claim 15, wherein the first engaging portion is a groove, and the second engaging portion is a protrusion sliding in the groove.

Claim 17 (Original): The device as claimed in claim 16, wherein the body further includes a notch for the protrusion entering into the groove.

Claim 18 (Original): The device as claimed in claim 15, further comprising:

a first fixed assembly disposed on the body; and

a first fixed portion, corresponding to the first fixed assembly, disposed on the battery, wherein the battery is positioned on the body by the first fixed assembly and the first fixed portion.

Claim 19 (Original): The device as claimed in claim 18, wherein the first fixed assembly comprises:

a ball abutted by the first fixed portion in an elastic manner; and

a first elastic member, connected to the ball, for moving the ball in a predetermined range.

Claim 20 (Original): The device as claimed in claim 18, wherein both the first fixed assembly and the first fixed portion are magnets respectively.

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Claim 21 (Original): The device as claimed in claim 18, further including:

- a second fixed assembly disposed on the body; and
- a second fixed portion, corresponding to the second fixed assembly, disposed on the battery, wherein the battery is positioned on the body by the second fixed assembly and the second fixed portion.

Claim 22 (Original): The device as claimed in claim 21, wherein the second fixed assembly comprises:

- a stopper abutted by the second fixed portion in an elastic manner; and
- a second elastic member, connected to the stopper, for moving the stopper in a predetermined range.

Claim 23 (Original): The device as claimed in claim 21, wherein the body further includes a battery bay for receiving the battery, and the first fixed assembly and the second fixed assembly are located at opposite corners of the battery bay.

Claim 24 (Original): The device as claimed in claim 15, further comprising:

- a positioning hole integrally formed on the body; and
- a shaft, corresponding to the positioning hole, integrally formed on the battery, wherein the battery rotates relative to the body by inserting the shaft into the positioning hole.

Claim 25 (Original): The device as claimed in claim 15, further comprising:

- a shaft integrally formed on the body; and
- a positioning hole, corresponding to the shaft, integrally formed on the battery, wherein the battery rotates relative to the body by inserting the shaft into the positioning hole.